MEMBERS MARINE CHEMIST'S ASSOCIATION

MARINE CHEMISTS, INC. of TEXAS P. O. Box 3602

(713) 832-6409 --- 866-4822 --- 866-2579 --- 866-4223 BEAUMONT, TEXAS 77704

CERTIFICATED CHEMISTS N F P A W. B. HATAWAY, NO. 537 J. T. ARRINGTON, No. 588 K, L, MERCER, No. 577

MARINE CHEMIST'S CERTIFICATE

SBA Shipyard, Inc. JO 190 SURVEY REQUESTED BY NMS No. 2600 8/22/78 Shell Oil VESSEL OWNER OR AGENT DATE Tank barge JW Indicator 8:30 AM TYPE VESSEL TEST METHOD TIME OF COMPLETION SBA Yard 1043 Asphalt CERTIFICATE NO. LOCATION LAST CARGO

Inspection and air tests show the following:

Shifting of vessel within shippard permitted Yes X No.

All cargo tanks (1 thru 4)-gas free, generally clean, some residue, have firewatch with hard hose on standby, then safe for men ad fire.

Forward add after rakes-clean and gas free over some water, safe for men and fire with water out and f irewatch with hard hose on standby.

Wing double bottom tanks IP and 2 Pfgas tree, considerable amount of asphalt, will burn with a heat, safe for fire to remove aspinal with firewatch with hard hose on standby during hot work!

Remaining wing double bottom tanks (15, 25, 3 PES and 4 PES) -gas free, generally clean, some asphalt residue, some insulation, some water, safe for men and fire clean, some asphalt residue, some insulation, some water, with firewatch with hard hose on standby during hot work.

Heating coils-air blown.

Cargo lines-opened.

THIS PRODUCT WILL BURN WITH HEAT, HOWEVER AIR VENTILATION IN ALL WORKTANKS. EXTREME CAUSION SHOULD BE MAINTAINED DURING IT IS NOT AN EXPLOSIVE PRODUCT. REPAIRS.

In the event of any physical or atmospheric changes affecting the gas-free condition of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned.

Qualifications

Transfer of ballast or manipulation of valves or closure equipment tending to after conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Cartificate, requires inspection and endorsement or release of Certificate for the spaces so affected. All lines, vents, heating coils, velves, and similarly enclosed appurtenances shall be considered "not sale" unless otherwise specifically designated.

Standard Safety Designations

8AFE FOR MEN. Means that in the compartment or space so designated: (a) The exygen content
of the atmosphere is at least 18.0 percent by volume; and that, (b) Toke materials in the atmosphere are within permissable concentrations; and (c) in the judgment of the Marine Chemist,
the residues are not capable of producing toxic materials under existing atmospheric conditions
while maintained as directed on the Marine Chemistre Certificate.

while mainteined as directed on the Marine Chemist's Certificate. SAFE FOR FIRE. Means that in the compartment so designated: (a) The concentration of flammable materials in the stroophere is below 10 percent of the lower flammable limit; and that, (b) in the judgment of the Marine Chemist, the residues are not capable of producing a lighter concentration than permitted by 1-5.2 (a) under existing atmospheric conditions in the presence of line and while maintained as directed on the Marine Chemist's Certificate; and further, (c) All adjacent spaces have either been closered sufficiently to prevent the spread of fire, are satisfactorily inerted, or, in the case of fuel tanks, have been treated as deemed necessary by the Marine

SAFE FOR SHIPBREAKING. Means that the compartment so designated: (a) Shall much the requirements of 1-5.1; and, (b) in the judgment of the Marine Chemist, the residual conbustible materials designated are not capable of producing fires beyond the extinguishing capabilities of the equipment on hand; and, (c) All adjacent compartments or spaces shall meet the re-quirements of 1-5.2 (c). Chemist's Endorsement

This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with the Standard For the Control of Gas Hazards on Vessels to Be Repaired, adopted by the National Fire Protection Association, and have found the condition of each to be in accordance with its assigned designation.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions

> Signed .. filst Cert. No.

The undersigned shipyard representative acknowledges receipt of this Certificate and understands the conditions and limitations under which it was issued.

Time Shipyard Representative Title Oate